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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,013	11/17/2003	Motoki Numata	245309US0X CONT	9740
22850 75	590 11/06/2006		EXAMINER	
C. IRVIN MC	- -	KUNEMUND, ROBERT M		
1940 DUKE ST	•	IAIER & NEUSTADT, P.C.	ART UNIT	PAPER NUMBER
ALEXANDRIA	A, VA 22314		1722	
			DATE MAILED: 11/06/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/713,013	NUMATA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Robert M. Kunemund	1722				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	he correspondence address	s			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versiling to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply vill apply and will expire SIX (6) MONTHS cause the application to become ABANI	TION. be timely filed from the mailing date of this commun DONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 A	<u>ugust 2006</u> .					
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.					
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>25-49</u> is/are pending in the application	n.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>25-49</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	e r .					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex	caminer. Note the attached C	Thice Action of form PTO-1	52.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
 Certified copies of the priority document 						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Burea		ivad				
* See the attached detailed Office action for a list	of the certified copies not re-	eivea.				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		nmary (PTO-413) fail Date				
Notice of Dransperson's Patent Drawing Review (PTO-946) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		rmal Patent Application				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 25, 26, and 31 to 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Turner et al (6,307,099) in view of Beard et al (WO 00/71226).

The Turner et al reference teaches a method of making terephthalic acid, note entire reference. The reactants are fed into a reaction chamber. One reactant can be oxygen, note examples. The reactants are reacted at temperatures and pressures within the claimed ranges, above the boiling points, note examples. The resultant slurry is then recovered from the chamber. The slurry is then subjected to a separation step, where the pressures and temperatures are similar in nature to the reaction ones, note

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examples. The solids are thus separated to create a cake. The cake is then subjected to a drying step. The sole difference between the instant claims and the prior art is the specific drying step. However, the Beard et al reference teaches that the drying step is done with lower pressures then the separation steps, note page 4. It would have been obvious to one of ordinary skill in the art to modify the Turner et al reference by the teachings of the Beard et al reference to dry with lower pressure in order to vaporize the liquid and increase the speed of drying.

Claims 27 to 30 and 39 to 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Turner et al (6,307,099) in view of Beard et al (WO 00/71226).

The Turner et al and Beard et al reference are relied on for the same reasons as stated, supra, and differ from the instant claims in the specific process parameters. However, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable process parameters in the Turner et al reference in order to produce a purer product with increase speeds.

Response to Applicants' Arguments

Applicant's arguments filed August 22, 2006 have been fully considered but they are not persuasive.

Applicants' argument concerning the rejection of claims 25, 26, and 31-38 is noted. However, the instant claims recite that the method to remove or dry is to lower the pressure of the solids. This is the same step that is being done in the Beard reference. Even though the reference calls it by a different name it is the same step.

Therefore, the combination of references does in fact teach the entire method set forth in the claims.

Applicants' argument concerning claims 27-30 and 39-49 has been considered and not deemed persuasive. One of ordinary skill in the art would have known that the properties of the liquid would affect the process. Thus result effective parameters. Thew flash point of a liquid would be a variable ina process where pressure is lowered to remove the liquid.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Kunemund whose telephone number is 571-272-1464. The examiner can normally be reached on 8 hours.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 571-272-1312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000

Robert M Kunemund Primary Examiner Art Unit 1722

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